

Title (en)

Motor controller with integrated safety function to eliminate requirement for external contactor

Title (de)

Motorsteuerung mit integrierter Sicherheitsfunktion zur Beseitigung des Bedarfs für einen externen Schütz

Title (fr)

Contrôleur de moteur avec fonction de sécurité intégrée afin d'éliminer l'exigence de contacteur externe

Publication

EP 2648311 A3 20180117 (EN)

Application

EP 13157887 A 20130305

Priority

US 201213437841 A 20120402

Abstract (en)

[origin: EP2648311A2] Circuits, systems, and methods are disclosed to eliminate the requirement for an external electromechanical contactor. Integrating contactor circuits with a motor controller reduces cost. Additionally, the cost of the contactor circuit may be reduced by providing transistors designed to block current in only one direction in the event of an electrical fault corresponding to an electrical drive direction.

IPC 8 full level

H02J 7/00 (2006.01); **H02P 7/00** (2016.01); **H02P 21/00** (2016.01)

CPC (source: EP US)

H02J 7/0031 (2013.01 - EP US); **H02P 7/00** (2013.01 - EP); **H02P 21/00** (2013.01 - EP)

Citation (search report)

- [Y] US 2005093370 A1 20050505 - AMANO MASAHIKO [JP], et al
- [Y] US 2012008246 A1 20120112 - KIM YOUNGBOK [KR]
- [Y] EP 1503488 A1 20050202 - FAVESS CO LTD [JP], et al
- [A] DE 102009027665 A1 20110120 - BOSCH GMBH ROBERT [DE]

Cited by

CN104577995A; EP3034351A3; US10046663B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2648311 A2 20131009; EP 2648311 A3 20180117; US 2013257149 A1 20131003; US 8602140 B2 20131210

DOCDB simple family (application)

EP 13157887 A 20130305; US 201213437841 A 20120402